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X: being at least one element selected from the group consisting of N, C, and O, and

n: being a running parameter, with $n \geq 1$.

4. A method as claimed in claim 3, wherein $n = 2$.

5. A method as claimed in claim 2, wherein the layer thickness of the intermediate layer (d_z) is selected to be

5 $0.01 \mu\text{m} \leq d_z \leq 0.5 \mu\text{m}$.

6. A method as claimed in claim 5, wherein the layer thickness of the intermediate layer (d_z) is selected to be $0.01 \mu\text{m} \leq d_z \leq 0.3 \mu\text{m}$.

10 7. A method as claimed in claim 5, wherein the layer thickness of the intermediate layer (d_z) is selected to be $0.01 \mu\text{m} \leq d_z \leq 0.2 \mu\text{m}$.

8. A method as claimed in claim 3, wherein the elements E_x comprise at least one of aluminum, silicon, chromium or boron.

15 9. A method as claimed in claim 2, wherein the hard material layer comprises a CrC, CrN, CrCN or WC-C layer.

10. A method as claimed in claim 9, wherein the hard material layer is a CrC, CrN, CrCN or WC-C layer.

20 11. A method as claimed in claim 2, wherein the hard material layer comprises at least one of a TiAlN or a TiCrN layer.

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12. A method as claimed in claim 2, wherein the hard material layer comprises a TiAlN layer.

13. A method as claimed in claim 12, wherein the hard material layer is a TiAlN layer.

5 14. A method as claimed in claim 2, wherein the hard material layer has a thickness of at least 2 μm .

15. A method as claimed in claim 2, wherein a hydrogen peroxide solution is used as the layer removal solution

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10 16. A method as claimed in claim 15, wherein the hydrogen peroxide solution is maximally 50 wt.% hydrogen peroxide.

17. A method as claimed in claim 15, wherein the hydrogen peroxide solution is maximally 20 wt.% hydrogen peroxide.

15 18. A method as claimed in claim 15, wherein NaOH is included in the solution.

19. A method as claimed in claim 18, wherein maximally 5.0 wt.% NaHO is in the solution.

20. A method as claimed in claim 18, wherein maximally 0.5 wt.% NaHO is in the solution.

20 21. A method as claimed in claim 15, wherein at least one of the substances disodium oxalate and KNa tartrate tetrahydrate are included in the solution.

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22. A method as claimed in claim 21, wherein the at least one of the substances disodium oxalate and KNa tartrate tetrahydrate are included in the solution at maximally 5 wt.%.

5 23. A method as claimed in claim 15, wherein the solution consists exclusively of water, hydrogen peroxide, NaHO and at least one of the substances disodium oxalate and KNa tartrate tetrahydrate.

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